28jan03 11:06:21 User208669 Session D2199.1
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*File 155: MEDLINE(R) 1966-2003/Jan W3

*File 155: Updating of completed records has resumed. See Help News155 Alert feature enhanced with customized scheduling. See HELP ALERT.

Set Items Description

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Set 26936 CMV OR HCMV OR CYTOMEGAL?
S2 837 (DNA OR GENE?)(W)VACCINE

S3 58 SI AND S2
S4 42 CYTOMEGALO? AND S3
S5 612 CMV(1W)PROMOTER
S6 36 S4 NOT S5

S4 42 CYTOMEGALO? *t*S5 612 CMV(1W)PROMC
S6 36 S4 NOT S5
S7 48 US28
S8 39 S1 AND S7
S9 22 UL33 OR UL78

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DIALOG(R)File 155:MEDLINE(R)

12942078 21826672 PMID: 11836387

Strong CD8 T-cell responses following coimmunization with plasmids expressing the dominant pp89 and subdominant M84 antigens of murine cytomegalovirus correlate with long-term protection against subsequent viral challenge.

Ye Ming; Morello Christopher S; Spector Deborah H

Molecular Biology Section, Division of Biology, University of California San Diego, 9500 Gilman Drive, La Jolla, CA 92093-0366, USA.

Journal of virology (United States) Mar 2002, 76 (5) p2100-12.

ISSN 0022-538X Journal Code: 0113724

Contract/Grant No.: T32 AI 07036; AI; NIAID Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed
We previously showed that intradermal immunization with plasmids
expressing the murine cytomegalovirus (MCMV) protein IE1-pp89 or M84
protects against viral challenge and that coimmunization has a synergistic

cytokine staining assay, we have now characterized the CD8+ T-cell response considering antigens that do not appear to be highly immunogenic during rapidly to the MCMV challenge. These results underscore the importance of antigen-specific CD8+ T cells remained detectable, and they responded protection against MCMV infection for at least 6 months, with the best with either pp89, M84, or pp89 plus M84 DNA also provided significant only under conditions where vaccination was suboptimal. Three immunizations of pp89-specific CD8+ T cells. In contrast, a significantly higher level of M84-specific CD8+ T-cell responses peaked rapidly after three after DNA immunization with pp89, M84, or pp89 plus M84. The pp89- and protective effect (C. S. Morello, L. D. Cranmer, and D. H. Spector, J. infection as DNA vaccine candidates. protection produced by coimmunization. A substantial percentage of infection. Fusion of ubiquitin to pp89 enhanced the CD8+ T-cell response M84-specific CD8+ T cells was elicited by DNA immunization than by MCMV immunizations. DNA immunization and MCMV infection generated similar levels Virol. 74:3696-3708, 2000). Using an intracellular gamma interferon

Record Date Created: 20020211

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DIALOG(R)File 155:MEDLINE(R)

Suppression of murine cytomegalovirus (MCMV) replication with a DNA vaccine encoding MCMV M84 (a homolog of human cytomegalovirus pp65).

Morello C S; Cranmer L D; Spector D H

Department of Pathology, University of California, San Diego, La Jolla, California 92093-0366, USA.

Journal of virology (UNITED STATES) Apr 2000, 74 (8) p3696-708.

ISSN 0022-538X Journal Code: 0113724 Contract/Grant No.: AI20954; AI; NIAID; GM07198; GM; NIGMS

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

The cytotoxic T-lymphocyte (CTL) response against the murine cytomegalovirus (MCMV) immediate-early gene I (IEI) 89-kDa phosphoprotein pp89 plays a major role in protecting BALB/c mice against the lethal effects of the viral infection. CTL populations specific to MCMV early-phase and structural antigens are also generated during infection, but the identities of these antigens and their relative contributions to overall immunity against MCMV are not known. We previously demonstrated that DNA vaccination with a pp89-expressing plasmid effectively generated a CTL response and conferred protection against infection (J. C. Gonzalez Armas, C. S. Morello, L. D. Cranmer, and D. H. Spector, J. Virol. 70:7921-7928, 1996). In this report, we have sought (i) to identify other viral antigens that contribute to immunity against MCMV and (ii) to determine whether the protective response is haplotype specific. DNA

only when the BALB/c mice were immunized with pp89 plus M84 or with pp89 appropriate combination of CMV genes may provide a strategy for improving conferred by DNA vaccination was haplotype dependent. In this strain of alone. The experiments with the C3H/HeN mice showed that the immunity to the same extent as observed in the spleen, and the decrease was seen expressing the viral proteins. However, the M84 plasmid was protective when mutant lacking the M84 gene. The other MCMV genes tested did not generate a M84 DNA, protected mice against subsequent infection with an MCMV deletion acid homology with the HCMV UL83-pp65 tegument protein, a major target of replication in the spleens of BALB/c mice. M84 is expressed early in the a new viral gene product, M84, that conferred protection against viral of virulent MCMV administered intraperitoneally. In this way, we identified of up to four expression plasmids and then challenged with sublethal doses encoding MCMV homologs of human cytomegalovirus (HCMV) tegument (M32, M48, vaccine efficacy. mice, only pp89 elicited a protective response as measured by a reduction the spleen. Viral titers in the salivary glands were also reduced, but not BALB/c mice with pp89 and M84 provided a synergistic level of protection in injected in combination with nonprotective plasmids, and coimmunization of protective response even when mice were immunized with vaccinia viruses protein was confirmed by showing that immunization with pp89 DNA, but not protective CTLs in humans. Specificity of the immune response to the M84 infection and encodes a nonstructural protein that shares significant amino immunized by intradermal injection of either single plasmids or cocktails antigens (IE1-pp89 and M84). BALB/c (H-2(d)) and C3H/HeN (H-2(k)) mice were M56, M82, M83, M69, and M99), capsid (M85 and M86), and nonstructural in spleen titer. These results suggest that DNA immunization with the immunization was used to test the protective efficacies of plasmids

Record Date Created: 20000426

Academy of Sciences, Shanghai 200031, China. wangyuan@server.shcnc.ac.cn Cell Biology, Shanghai Institutes for Biological Sciences, the Chinese DIALOG(R)File 155:MEDLINE(R) 13500812 22093569 PMID: 12098766 Sheng Wu Hua Xue Yu Sheng Wu Wu Li Xue Bao (Shanghai) (China) Jul 2002, State Key Laboratory of Molecular Biology, Institute of Biochemistry and Zhu Jun; Wang Chun-Lin; Zhu Li-Xin; Kong Yu-Ying; Wang Yuan; Li Guang-Di DNA immunization with recombinant HCV E2 expression plasmids.

Languages: ENGLISH Document type: Journal Article

34 (4) p445-51, ISSN 0582-9879 Journal Code: 20730160R

Main Citation Owner: NLM

advantages, DNA immunization was demonstrated to generate weaker antibody inoculation, is a newly developed method of vaccination. Besides of many DNA-based immunization, the delivery of plasmid DNA by direct Record type: Completed

> medium. Protein expression level is slightly higher in plasmids with CMV expressed and properly processed, and the product could be secreted into constructed, which encode C-terminally truncated E2 (384-660) with HBV cytokines, etc. The studies showed that many factors could greatly affect respectively. To circumvent this shortage, several methods were tested such is a good vaccine candidate. Possible reasons for the different immune sequence could induce high-level and long-lasting antibody, showing that it antibodies. But only pCMV Sec-S1E2t660 with both CMV promoter and signal all the recombinant constructs could elicit both anti-preS1 and anti-E2 promoter than with EF1alpha promoter. After immunization of C57BL/6 mice, showed that only recombinant plasmids with signal sequence could be preS1 21-47 tag fused to its N-termini. Transient expression in HeLa cells different promoter types and with or without signal sequences were responses by using DNA-based immunization. Four expression plasmids, with different vectors for the presentation of the HCV E2 to generate immune the immune responses to DNA vaccine. The aim of this study is to compare as using different vector, changing injection mode, and co-expressing and CTL responses than did protein and live attenuated vaccines, responses to these constructs were discussed.

Record Date Created: 20020705

DIALOG(R)File 155:MEDLINE(R)

cytomegalovirus results in an attenuated, syncytium-inducing mutant strain Beisser P S; Grauls G, Bruggeman C A; Vink C Deletion of the R78 G protein-coupled receptor gene from rat

ISSN 0022-538X Journal Code: 0113724 Maastricht, Maastricht University, 6202 AZ Maastricht, The Netherlands. Journal of virology (UNITED STATES) Sep 1999, 73 (9) p7218-30 Department of Medical Microbiology, Cardiovascular Research Institute

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

cytomegalovirus UL78, respectively. The R78 gene is transcribed throughout similarity with the gene products of murine cytomegalovirus M78 and humar class of viral G protein-coupled receptor (GCR) genes. The predicted amino null mutant (RCMVDeltaR78a) and an RCMV mutant encoding a GCR from which R78 gene, we generated two different recombinant virus strains: an RCMV R78 at least ORF R77 and ORF R78 sequences. To investigate the function of the containing both R77 and R78 sequences, and (iii) a 5.7-kb mRNA containing (i) a 1.8-kb mRNA containing the R78 sequence, (ii) a 3.7-kb mRNA vitro. Transcription of R78 was found to result in three different mRNAs: the early and late phases of infection in rat embryo fibroblasts (REF) in acid sequence of the R78 open reading frame (ORF) shows 25 and 20% The rat cytomegalovirus (RCMV) R78 gene belongs to an uncharacterized

the putative intracellular C terminus has been deleted (RCMVDeltaR78c). These recombinant viruses replicated with a 10- to 100-fold-lower efficiency than wild-type (wt) virus in vitro. Interestingly, unlike wt virus-infected REF, REF infected with the recombinants develop a syncytium-like appearance. A striking difference between wt and recombinant viruses was also seen in vivo: a considerably higher survival was seen among recombinant virus-infected rats than among RCMV-infected rats. We conclude that the RCMV R78 gene encodes a novel GCR-like polypeptide that plays an important role in both RCMV replication in vitro and the pathogenesis of viral infection in vivo.

Record Date Created: 19990907

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\$2.60 TELNET

\$11.14 Estimated cost this search

\$11.47 Estimated total session cost 2.496 DialUnits

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